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TUESDAY 18 JULY

ENVIRONMENTAL AND ECOTOXICOLOGY (cont)

Abstract

210 (P71) Effects of the insecticide Thiodan 35 (endosulfan) on some phase 1 and phase 2 enzymes from gut and gut-free tissues of last instar *Oryctes nasicornis* larva
B Egaas, J U Skåre, B G Jensen & S Kobro (Ås-NLH, Norway)

210 (P72) A data base for extrapolations of toxic effects on aquatic organisms
S Marchini, L Passerini, A Pino & M L Tosato (Rome, Italy)

211 (P73) Temporal and spatial variation in a battery of biomarkers in Great Lakes fish-eating birds in relation to known patterns of chemical contamination
G A Fox, S W Kennedy & S Trudeau (Ottowa, Canada)

212 (P74) Monooxygenase activities in wild birds
J L Riviere (Marcy l'Etoile, France)

213 (P75) Induction of sister chromatid exchanges in ULF-23HU cultured fish cells by directly and indirectly acting mutagens
E-H Park, J Y Lee & K J Leo (Seoul, Korea)

214 (P76) Artificial outdoor streams: evaluation of biological effects of toxic chemicals under semi-natural conditions
G C Mitchell (Sittingbourne, UK)

215 (P77) Accumulation of endosulfan by catfish under laboratory conditions
B Nowak (Sydney, Australia)

216 (P78) Cell transformation by organic extract of air-borne particulate
T Ding, F Wang & J Li (Jinan, China)

217 (P79) The mutagenic activity of lake water in relation to micronucleus rate of fish red blood cells
F Wang, T Ding, H Zhu, J Li, C Liu, C Peng & F Han (Jinan, China)

218 (P80) Acute toxicity of MX, a drinking water mutagen, in the rat
H Komulainen, H Huuskonen, V-M Kosma, T Vartiainen, S Löjönen, K M Savolainen & J Tuomisto (Koupio, Finland)

219 (P81) Effect of sulphur amino acids on GSH S-transferase in the common earthworm (*Lumbricus terrestris*)
A Furst, Q Nguyen & L Nguyen (San Francisco & Santa Clara, USA)

220 (82) Prevention of groundwater contamination by pesticides: a California programme
P E Belteau & D C Mengle (Berkeley, USA)

221 (P83) Chlorophenol, PCDD and PCDF exposures of population after pollution of ground water
P Lampi, T Vartiainen, A Hesso & J Tuomisto (Kuopio & Helsinki, Finland)

232 (P84) Biomonitoring of atrazine exposure in man
M Maroni, G Catenacci, D Cottica & V Foà (Milan & Pavia, Italy)

223 (P85) Exposure to pentachlorophenol in wood industry
C Colosio, M Maroni, S Garattini & H Knoppel (Milan & Ispra, Italy)

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ENVIRONMENTAL AND ECOTOXICOLOGY (cont)

Abstract

224 (P86) Levels of organochlorine insecticides in milk of mothers from urban and rural areas of Botucatu, SP, Brazil
L S Sant'Ana, I Vassilieff & L Jokl (Botucatu, Brazil).

225 (P87) Urine and blood levels of mercury in the fishermen and their families, residents by the side of Tietê and Piracicaba Rivers which form a Dam of Barra Bonita, in São Paulo State, Brazil
I Vassilieff, L S Sant'Ana, A A Almeida, I. Sanches (Botucatu, Brazil)

TUESDAY

HEPATOTOXICOLOGY, II (Abstracts 226-244)

Chairmen: H M Mehendale (Jackson, USA) and G Bellomo (Pavia, Italy)

Posters will be displayed in the Hewitson Hall. The Discussion Group will be held in the Albert Room, Grand Hotel

226 (P92) The cytoprotective role of a thromboxane synthetase inhibitor against Ca^{2+}-induced toxicity *in vivo* and *in vitro*
J M Wood & A Horton (Burtonghant, UK)

227 (P93) The study on *in vitro* toxicity of TNT to intact rat hepatocytes.
Z X Zhuang, S J Liu & Q G Jiang (Beijing, China)

228 (P94) Effects of TNT on the Ca^{2+} transport and membrane sulphydryl of rat liver subcellular fractions
Z X Zhuang, S J Liu & Q G Jiang (Beijing, China)

229 (P95) Toxic effects of sustained high calcium levels in hepatocytes
J F Nagelkerke, P Dogterom, H J G M de Bont & G J Mulder (Leiden, The Netherlands)

230 (P96) *N*-Acetyl-*p*-benzoquinoneimine (NAPQI)-induced Ca^{2+} release from rat liver mitochondria
M Wen, G A Moore, S D Nelson & P Moldeus (Stockholm, Sweden)

231 (P97) Effect of extracellular calcium on the induction of cell death: a role for lipid peroxidation
P Dogterom, G J Mulder & J F Nagelkerke (Leiden, The Netherlands)

232 (P98) Involvement of ATP supported Ca^{2+} uptake in the regulation of Ca^{2+}-dependent endonuclease activity in liver nuclei
P Nicotera, D J McConkey, D P Jones & S Orrenius (Stockholm, Sweden)

233 (P99) Role of DNA damage in cell killing during oxidative stress
J Dypbukt & P Nygårds (Stockholm, Sweden)

234 (P100) 2,3-Di(*tert*-butyl)-1,4-benzohydroquinone inhibits hormonal response in rat liver
G P N Kass, G Gantt, S K Duddy & S Orrenius (Stockholm, Sweden)

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TUESDAY 18 JULY

HEPATOTOXICOLOGY II (cont)

Abstract

235 (P101) Suppression of hepatic peroxisome proliferation by calcium antagonist
T Watanabe, H Inoue & T Saga (Hachioji, Japan)

236 (P102) CCl_4-induced alterations of hepatic calmodulin in rats pretreated with chlordecone (Kepone®)
P R S Kodavanti, U M Joshi & H-M Mehendale (Jackson, USA)

237 (P103) A role for the glutathione peroxidase/reductase enzymes in age-related differences of paracetamol toxicity in mouse hepatocytes
A W Harman & G M Adamson (Nedlands, Australia)

238 (P104) Study of hydrazine toxicity in rat cell hepatocytes
S Ghallaich & J A Timbrell (London, UK)

239 (P105) *In vitro* assessment of cocaine metabolism and toxicity in primary rat hepatocyte cultures
P Bouis, U A Boelsterli & P Donatsch (Basle & Zurich, Switzerland)

240 (P106) Effect of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin on EGF-stimulated rat hepatocytes
J J Mills & J B Greig (Carshalton, UK)

241 (P107) Fast detection of cytochrome P450 isoenzyme patterns with chemiluminescence
E H J M Jansen, E J M Kemenade & R H van den Berg (Bilthoven, The Netherlands)

242 (P108) Recovery of capacity of producing glucose in hepatocytes inhibited by nigrosin
J D Pedrera & M P Miguez (Caceres, Spain)

243 (P109) Ultrastructural alterations induced by flutriafen in isolated hepatic cells and their partial recovery
M P Miguez, A Quesada & J D Pedrera (Caceres, Spain)

244 (P110) Acetaminophen hepatotoxicity: immunological detection of 3-(cystein-S-yl) acetaminophen protein adducts
J Hinson, N Pumford, R Benson & D Roberts (Jefferson, USA)

IN VITRO TOXICOLOGY I (Abstracts 245-268)

Chairmen: J Fraser (Baltimore, USA) and M Tomson (Cincinnati, USA)

Posters will be displayed in the Hewetson Hall. The Discussion Group will be held in the Buckingham Room, Metropole Hotel

245 (P128) Early toxicity in human pulmonary artery endothelial (HPAE) cells with amiodarone (A) is associated with an increase in intracellular free ($[Ca^{++}]_i$) to micromolar levels
G Powis, R Olsen, W Martin & D Kuttel (Rochester & Indianapolis, USA)

246 (P129) Studies on an *in vitro* model system for cardiotoxicity
J Law-Friedrich, T Freudigh & W Schaeppi (Frankfurt, FRG)

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IN VITRO TOXICOLOGY I (cont)

Abstract

247 (P130) **The effects of cadmium on metal homeostasis and MT induction in rainbow trout hepatocytes**
F Gagné, M Marion & F Denizeau (Montreal, Canada)

248 (P131) Cadmium-induced alteration of membrane potential in isolated hepatocytes
J Martel, M Marion & F Denizeau (Montreal, Canada)

249 (P132) Anti amanitin effect of Silibinin in an *in vitro* model with a human liver derived cell line (Chang)
L Wagner, K Mosser, A Donner, G Sunder & K Hruby (Vienna, Austria)

250 (P133) Activation of carcinogens to mutagens by rat liver nonparenchymal cells
P Steinberg, B Schlemper & F Oesch (Mainz, FRG)

251 (P134) Paracetamol toxicity involves mitochondrial respiratory dysfunction in mouse hepatocytes
A W Harman & P C Burcham (Nedlands, Australia)

252 (P135) Hepatocytes cultured on extracellular matrix as a model for pathological and toxicological studies
M J M Toussaint & H Nederbragt (Utrecht, The Netherlands)

253 (P136) Scoring of cytotoxicity by image analysis using animal cell cultures
U Tillmann & H G Miltenburger (Darmstadt, FRG)

254 (P137) Protective effects of KW-3049 under ischaemia conditions on cultured mouse foetal heart cells
H Tanaka, K Sakurai, H Takahira & T Deguchi (Yamaguchi, Japan)

255 (P138) Maintenance of some cytochrome P450 isozymes in primary hepatocyte culture in the presence of dimethylsulphoxide
C K Lindsay & G M Hawksworth (Aberdeen, UK)

256 (P139) Comparison of *in vitro* toxicity endpoints as indices of hepatotoxicity
J Frazier & T Nazar (Baltimore, USA)

257 (P140) Paraquat induces DNA damage in cultured human endothelial cells (HUVEC)
G Hampel (Erlangen, FRG)

258 (P141) Bromobenzene toxicity in human Hep G2 hepatoma cells
M H Grant & S J Duthie (Aberdeen & Glasgow, UK)

259 (P142) The toxicity of nitrobenzene in human liver derived Hep G2 hepatoma cells
S J Duthie & M H Grant (Aberdeen & Glasgow, UK)

260 (P143) Inhibition of intercellular communication in cardiac myocytes from neonatal rats by carbon tetrachloride and 1,1,1-trichloroethane
M Turnasson, H E Wey & M J Brenenstein (Cincinnati, USA)

261 (P144) Intrinsic toxicity data from tissue culture and prediction and analysis of *in vivo* response
F Hincal, E O Dillingham & J Autian (Ankara, Turkey & Memphis, USA)

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IN VITRO TOXICOLOGY I (cont)

Abstract

262 (P145) Toxicity testing on sea urchin egg and the determination of intracellular targets of xenobiotics
D Pesando, L Biyiti, P Amade, D Allemand, J Berreur, S Puiseux-Dao, J P Girard & P Payan (Villefranche-sur-Mer, Nice & Gif-sur-Yvette, France)

263 (P146) Chemometric strategies in the assessment of chemicals' safety
M L Tosato, S Clementi, M Sjöström & S Wold (Rome & Perugia, Italy; Umeå, Sweden)

264 (P147) Influence of cell age on the toxic response to food chemicals in *in vitro* culture
A Kasamaki & S Urakawa (Sapporo, Japan)

265 (P148) *In vitro* inhibition of benzo[*a*]pyrene activation by an imidazole, the prochloraz, in rat liver
E Antignac, B Koch, P Cassand & J F Narbonne (Talence, France)

266 (P149) Histopathological evaluation of cultured precision-cut liver slices exposed to hepatotoxins
A J Gandolfi, C M Thomas, S Azzi & K Brendel (Tucson, USA)

PULMONARY TOXICOLOGY (Abstracts 267-289)

Chairmen: P J Nicholls (Cardiff, UK) and D M Bernstein (Carouge-Geneva, Switzerland)

Posters will be displayed in the Hewetson Hall. The Discussion Group will be held in the Balmoral Room, Metropole Hotel.

267 (P150) Alterations in composition of epithelial lining fluid in response to inhaled particles
K F Henderson, E B-Barr, J R Harkema, J A Pickrell & A F Eidson (Albuquerque, USA)

268 (P151) Investigation of a role for desethylamiodarone in amiodarone-induced pulmonary toxicity
T E Massey, J [redacted]angels & J F Brien (Kingston, Canada)

269 (P152) Modification of toxic lung lesions by faggery
A P Sahu (New Delhi, India)

270 (P153) Cumene lung cells at risk from radon
N F Johnson, D G Thomassen & A L Brooks (Albuquerque, USA)

271 (P154) Comparative long term morphologic and biochemical changes induced by *O,O,S*-trimethyl phosphorothioate (OOS) in the rat and mouse lung
S K Dutcher, M J J Gijbels, J Gandy & T Imamura (Nutley & Little Rock, USA; Rijswijk, The Netherlands, Carouge Geneva, Switzerland)

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PULMONARY TOXICOLOGY (cont)

Abstract

272 (P155) Effect of *O,O,S*-trimethyl phosphorothioate (OOS-TMP), a pneumotoxin, on pulmonary functions and haemorheology
T Imamura, R Ventrone, M L Bezençon, J Roux, E M Grandjean & S K Durham (Carouge-Geneva & Nyon, Switzerland; Nutley, USA)

273 (P156) Effect of acute paraquat intoxication on rats' lung tissue
A Y Hoshikawa-Fujimura, A J Guimarães, A E Aznar & S Barros (São Paulo, Brazil)

274 (P157) Membrane perturbation by cigarette smoke of rat lung microsomes
Y Ohmiya, M Tomita, S Fujisawa, A Enomoto & K Nakai (Akita, Japan)

275 (P158) Synergistic effects on lipid peroxidation and antioxidative systems in lungs of rats and guinea pigs exposed to NO_2 and O_3
M Sagai & T Ichinose (Tsukuba, Japan)

276 (P159) Metabolism and toxicity of bromobenzene in the olfactory mucosa
C Holm & E B Brittebo (Uppsala, Sweden)

277 (P160) Dichlobenil a herbicide highly toxic to the nasal mucosa in mice
L Brandt, E B Brittebo, B-O Lund & J Bakke (Uppsala, Sweden & Fargo, USA)

278 (P161) Differences in sensitivity to monocrotaline pyrrole of pulmonary vascular endothelium and smooth muscle cells in culture
R A Roth, J F Reindel & C M Hoorn (East Lansing, USA)

279 (P162) Effects of long-term exposure to low concentration of nitrogen dioxide and ozone on rats' lungs - electron microscopic morphometry
J Yonemoto, A Kawagoe & M Murakami (Tsukuba, Japan)

280 (P163) The role of arachidonic acid mediators in toxic gas inhalation
A M Scivito, T P Kennedy & G H Gunner (Baltimore, Durham & Valhalla, USA)

281 (P164) Effect of cyclophosphamide and vitamin E deficiency on lung mitochondrial lipid dynamics
J M Patel & M Sekharam (Gainesville, USA)

282 (P165) Sensitivity of lung mitochondrial respiratory chain enzymes in rats exposed to hydrogen sulphide gas
A A Khan, M M Schuler, M G Prior, R W Coppock & L E Lillie (Vegreville, Canada)

283 (P166) Hydrogen sulphide induced injury of rat airway epithelium
M G Prior, A Lopez, L E Lillie & A A Khan (Vegreville, Canada)

284 (P167) Cellular specificity of the effects of paraquat in rat lung slices with compromised oxidative defences
S J Hardwicke, L L Smith & G M Cohen (London & Macclesfield, UK)

285 (P168) Carbon monoxide uptake as an index of pulmonary diffusion in rats
J A Artus & A Cockburn (Stock, UK)

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